

# Recovery Plan Action Status

Plan Name: Ouachita Rock Pocketbook

Plan Status: Final

Plan Date: 02-Jun-04

Lead Agency: USFWS

Lead Office: Oklahoma Ecological Services Field Office

(918)

581-7458 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ouachita rock pocketbook (Arkansia wheeleri)	1	1.1	Use existing statutes to protect the Kiamichi River system where the Ouachita rock pocketbook occurs.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Oklahoma Department of Wildlife Conservation, USFWS Regional Office 2, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 3K/year, LE costs = 1K/year, CE costs = 3K/year, EPA costs = 2K/year, FERC costs = 1K/year, FHWA costs = 2K/year, FS costs = 2K/year, USDA costs = 2K/year, ODWC costs = 1K/year, ODEQ costs = 1K/year, ODM costs = 1K/year, OSDA costs = 1K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	1	1.21	Deauthorize Tuskahoma Reservoir.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Army Corps of Engineers, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs are To Be Determined. Requires Congressional action.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ouachita rock pocketbook (Arkansia wheeleri)	2	1.22	Determine value of major tributaries as habitat for the Kiamichi River population.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, Hancock Timber Resource Group	Work type not yet selected	Labor type not yet selected	All parties are 2K for FY1.
Ouachita rock pocketbook (Arkansia wheeleri)	2	1.23	Perform cooperative projects to increase habitat protection in the Kiamichi River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Oklahoma Conservation Commission, Oklahoma Department of Transportation, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 5K/year. CE costs = 2K/year. EPA costs = 4K/year. FHWA costs = 2K/year. FS costs = 2K/year. USDA costs = 4K/year. OCONS costs = 1K/year. ODT costs = 1K/year. ODWC costs = 2K/year. OSDA costs = 2K/year.

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Ouachita rock pocketbook (Arkansia wheeleri)	2	1.24	Upgrade protection of Kiamichi River through water quality standards and water quality management programs.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Oklahoma Department of Environmental Quality, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Oklahoma Water Resources Board	Work type not yet selected	Labor type not yet selected	ES costs: FY1 = 2K, FY2&3 = 4K/year. EPA costs: FY1 = 2K, FY2&3 = 4K/year. FS costs: FY1 = 1K, FY2&3 = 2K/year. OCONS costs: FY1 = 1K, FY2&3 = 2K/year. ODEQ costs: FY1 = 1K, FY2&3 = 2K/year. ODWC costs: FY1 = 1K, FY2&3 = 2K/year. OSDA costs: FY1 = 1K, FY2&3 = 2K/year. OWRB costs: FY1 = 1K, FY2&3 = 2K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	3	1.251	Inventory property ownerships and water rights appropriations along the Kiamichi River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Division of Realty, Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, Hancock Timber Resource Group	Work type not yet selected	Labor type not yet selected	ES costs = 2K/year. RE costs = 1K/year. ODWC costs = 1K/year. ONHI costs = 1K/year. HTRG costs = 1K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	3	1.252	Ensure public landowner notification.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 1K. Applies to lands within the Kiamichi River basin
Ouachita rock pocketbook (Arkansia wheeleri)	3	1.253	Ensure private landowner notification.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 2K. ODWC costs = 1K. Applies to lands within the Kiamichi River basin.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	1.254	Manage response to identified threats to the Kiamichi River population.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Forest Service, U.S. Army Corps of Engineers, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 1K/year. CE costs = 1K in FY1. FS costs = 1K in FY1. OCONS = 1K in FY1. ODEQ costs = 1K/year. All other parties had zero dollars on cost estimates.
Ouachita rock pocketbook (Arkansia wheeleri)	3	1.255	Develop protection approaches for specific Kiamichi River properties.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service, Division of Realty, U.S. Forest Service, U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, Refuge Division, Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, Oklahoma Conservation Commission, Hancock Timber Resource Group	Work type not yet selected	Labor type not yet selected	ES costs = 12K/year. LE costs = 1K/year. RE costs = 1K/year. RS costs = 1K/year. CE costs = 4K/year. FHWA costs = 3K/year. FS costs = 3K/year. USDA costs = 3K/year. OCONS costs = 2K/year. ODWC costs = 5K/year. ONHI costs = 3K/year. HTRG costs = 2K/year.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	1.256	Integrate initial protections into a habitat protection plan for the Kiamichi River population.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 5K/year. ODWC costs = 5K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	1	1.31	Develop and implement monitoring of the Kiamichi River population and its habitat.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 10K, ODWC costs = 5K, ONHI costs = 5K. To be performed triennially.
Ouachita rock pocketbook (Arkansia wheeleri)	1	1.32	Develop and implement monitoring of current and potential threats to the Kiamichi River population.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 4K/year. CE costs = 4K/year. EPA costs = 4K/year. FS costs: FY1 = 3K, FY2&3 = 2K/year. OCONS costs = 3K/year. ODEQ costs = 3K/year. ODM costs: FY1 = 3K, FY2&3 = 1K/year. ODWC costs: FY1 = 3K, FY2&3 = 2K/year. OSDA costs: FY1 = 3K, FY2&3 = 2K/year.

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Ouachita rock pocketbook (Arkansia wheeleri)	2	2.1	Conduct a survey of the Little River in Arkansas and Oklahoma for existing populations.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Forest Service, U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, Refuge Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 3K, RS costs = 1K, CE costs = 2K, FS costs = 2K, AGFC costs = 2K, ODWC costs = 2K.
Ouachita rock pocketbook (Arkansia wheeleri)	2	2.2	Conduct surveys of the Ouachita River in Arkansas for existing populations.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Forest Service, U.S. Army Corps of Engineers, Arkansas Game and Fish Commission , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 4K/year. CE costs = 3K/year. FS costs = 2K/year. AGFC costs = 3K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	2	2.3	Conduct surveys of other Red River tributaries in Oklahoma, Texas and Arkansas for existing populations.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 4K, AGFC costs = 2K, ODWC costs = 2K, TPWD costs = 2K.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	2.4	Determine if any populations outside of the Kiamichi River are viable.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 6K/year. AGFC costs = 2K/year. ODWC costs = 2K/year. TPWD costs = 2K/year. Initial assessment to be revised, based on completion of Task 6.2 and cumulative monitoring data.

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Ouachita rock pocketbook (Arkansia wheeleri)	2	3.1	Use existing statutes to restore and protect habitat for the Ouachita rock pocketbook outside of the Kiamichi River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, U.S. Fish and Wildlife Service, Refuge Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 6K/year. LE costs = 2K/year. RS costs = 2K/year. CE costs = 6K/year. EPA costs = 4K/year. FERC costs = 2K/year. FHWA costs = 4K/year. FS costs = 4K/year. USDA costs = 4K/year. ADE costs = 2K/year. AGFC costs = 2K/year. ODEQ costs = 2K/year. ODM costs = 2K/year. ODWC costs = 2K/year. OSDA costs = 2K/year. TCEQ costs = 2K/year. TPWD costs = 2K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	2	3.21	Deauthorize unimplemented channel modifications of the Ouachita River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Army Corps of Engineers, USFWS Regional Office 2, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	Costs are To Be Determined. Deauthorization requires Congressional action.



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Ouachita rock pocketbook (Arkansia wheeleri)	2	3.22	Develop and implement cooperative projects to increase restoration and protection of degraded habitat and populations outside of the Kiamichi River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Texas Department of Transportation, U.S. Fish and Wildlife Service, Refuge Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Arkansas Highway and Transportation Department, Oklahoma Conservation Commission, Oklahoma Department of Transportation, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 6K/year. RS costs = 4K/year. CE costs = 4K/year. EPA costs = 8K/year. FHWA costs = 4K/year. FS costs = 4K/year. USDA costs = 8K/year. AGFC costs = 4K/year. AHTD costs = 2K/year. OCONS costs = 2K/year. ODT costs = 2K/year. ODWC costs = 4K/year. OSDA costs = 2K/year. TPWD costs = 4K/year. TxDOT costs = 2K/year.

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Ouachita rock pocketbook (Arkansia wheeleri)	2	3.23	Upgrade protection of degraded habitat areas outside of the Kiamichi River through water quality standards and water quality management programs.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture, Oklahoma Water Resources Board	Work type not yet selected	Labor type not yet selected	ES costs: FY1 = 5K, FY2&3 = 10K/year. EPA costs: FY1 = 4K, FY2&3 = 8K/year. FS costs: FY1 = 2K, FY2&3 = 4K/year. ADE costs: FY1 = 1K, FY2&3 = 2K/year. AGFC costs: FY1 = 1K, FY2&3 = 2K/year. OCONS costs: FY1 = 1K, FY2&3 = 2K/year. ODEQ costs: FY1 = 1K, FY2&3 = 2K/year. ODWC costs: FY1 = 1K, FY2&3 = 2K/year. OSDA costs: FY1 = 1K, FY2&3 = 2K/year. OWRB costs: FY1 = 1K, FY2&3 = 2K/year. TCEQ costs: FY1 = 1K, FY2&3 = 2K/year. TPWD costs: FY1 = 1K, FY2&3 = 2K/year. Coordinate with Actions 1.24 and 5

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Ouachita rock pocketbook (Arkansia wheeleri)	2	3.3	Institute a monitoring program for degraded populations and habitat outside of the Kiamichi River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, U.S. Fish and Wildlife Service, Refuge Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs = 7K/year. RS costs = 2K/year. CE costs = 4K/year. EPA costs = 4K/year. FS costs = 3K/year. ADE costs: FY1 = 3K, FY2&3 = 2K/year. AGFC costs: FY1 = 3K, FY2&3 = 2K/year. OCONS costs: FY1 = 3K, FY2&3 = 2K/year. ODEQ costs: FY1 = 3K, FY2&3 = 2K/year. ODM costs: FY1 = 3K, FY2&3 = 2K/year. ODWC costs: FY1 = 3K, FY2&3 = 2K/year. ONHI costs: FY1 = 3K, FY2&3 = 2K/year. OSDA costs: FY1 = 3K, FY2&3 = 2K/year. TCEQ costs: FY1 = 3K, FY2&3 = 2K/year. TPWD costs: FY1 = 3K, FY2&3 = 2K/year. Biological monitoring to occur triennially
Ouachita rock pocketbook (Arkansia wheeleri)	1	4.1	Determine and protect the fish host (s) and its (their) habitat.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 30K/year. AGFC costs = 5K/year. ODWC costs = 5K/year. Dependent upon determining timing of glochidial release.

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Ouachita rock pocketbook (Arkansia wheeleri)	1	4.2	Determine sex ratio among Ouachita rock pocketbook, ages at which they produce gametes, and seasonal timing of reproduction.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 44K/year. AGFC costs = 8K/year. ODWC costs = 8K/year. Initial estimates supplemented by data collected through continuing tasks.
Ouachita rock pocketbook (Arkansia wheeleri)	2	5.1	Determine habitat use of populations outside of the Kiamichi River.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 8K/year. AGFC costs = 4K/year. ODWC costs = 2K/year. ONHI costs = 2K/year. TPWD costs = 4K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	1	5.2	Determine habitat and early life history of juvenile Ouachita rock pocketbooks.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 20K/year. ODWC costs = 5K/year. ONHI costs = 5K/year.

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Ouachita rock pocketbook (Arkansia wheeleri)	1	5.3	Determine environmental sensitivities of the Ouachita rock pocketbook.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Oklahoma Department of Wildlife Conservation, USFWS Regional Office 2, Contractor, U.S. Fish and Wildlife Service, Water Resources Division	Work type not yet selected	Labor type not yet selected	ES costs = 15K/year. WR costs = 10K/year. CE costs = 30K/year. EPA costs = 30K/year. FS costs = 10K/year. ODWC costs = 5K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	3	6.1	Determine comparative genetic composition of extant populations.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission, Oklahoma Department of Wildlife Conservation, USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 9K/year. AGFC costs = 2K/year. ODWC costs = 2K/year. TPWD costs = 2K/year.
Ouachita rock pocketbook (Arkansia wheeleri)	3	6.2	Determine factors limiting population growth, and refine characterization of population viability for the species.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission, Oklahoma Department of Wildlife Conservation, USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	Dependent upon results from Actions 2, 4, 5, and 6.1; start estimated in year 5 of recovery program.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	7.1	Develop techniques for successful transplantation.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 16K/year. AGFC costs = 8K/year. ODWC costs = 8K/year. TPWD costs = 8K/year. Prerequisite to Actions 7.2, 7.3, and 7.4.
Ouachita rock pocketbook (Arkansia wheeleri)	3	7.2	Select stream sites for introduction.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	Start estimated in year 4.
Ouachita rock pocketbook (Arkansia wheeleri)	3	7.3	Translocate Ouachita rock pocketbooks into two populations outside of the Kiamichi River population.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	Start estimated in year 5.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	7.4	Protect transplanted populations and evaluate success.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	Start estimated in year 5. With success in second year, incorporate continued protection into Action 3.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	8	Develop an outreach program.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Arkansas Department of Parks and Tourism , Oklahoma Department of Wildlife Conservation , U.S. Fish and Wildlife Service, Division of External Affairs, USFWS Regional Office 2, USFWS Regional Office 4, Oklahoma Tourism and Recreation Department	Work type not yet selected	Labor type not yet selected	ES costs: FY1&2 = 4K, FY3 = 1K. EA costs: FY1&2 = 4K, FY3 = 1K. AGFC costs = 3K for FY 1&2. ADPT costs = 3K for FY 1&2. ODWC costs = 3K for FY 1&2. OTRD costs = 3K for FY 1&2. TPWD costs = 5K for FY 1&2. Duration is 2 years to develop, then continual at reduced level.
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.1	Improve coordination of monitoring and research activities with management activities.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality, Oklahoma Conservation Commission	Work type not yet selected	Labor type not yet selected	All costs are ES.



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Ouachita rock pocketbook (Arkansia wheeleri)	3	9.2	Better correlate basin conditions and human activities with habitat conditions.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, U.S. Fish and Wildlife Service, Water Resources Division, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	ES costs: FY1 = 3K, FY2&3 = 6K/year. WR costs: FY1 = 1K, FY2&3 = 2K/year. CE costs: FY1 = 1K, FY2&3 = 2K/year. EPA costs: FY1 = 1K, FY2&3 = 2K/year. FS costs: FY1 = 1K, FY2&3 = 2K/year. ADE costs: FY1 = 1K, FY2&3 = 2K/year. AGFC costs: FY1 = 1K, FY2&3 = 2K/year. OCONS costs: FY1 = 1K, FY2&3 = 2K/year. ODEQ costs: FY1 = 1K, FY2&3 = 2K/year. ODWC costs: FY1 = 1K, FY2&3 = 2K/year. OSDA costs: FY1 = 1K, FY2&3 = 2K/year. TCEQ costs: FY1 = 1K, FY2&3 = 2K/year. TPWD costs: FY1 = 1K, FY2&3 = 2K/year.

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Ouachita rock pocketbook (Arkansia wheeleri)	3	9.3	Better indicate and implement appropriate treatments and responses for identified threats/sources of degradation.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Weyerhaeuser Corporation, Inc., U.S. Federal Highway Administration, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	All parties costs = 1K/year.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.4	Develop expanded habitat restoration - protection plan for all areas inhabited by the Ouachita rock pocketbook.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service, Division of Realty, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, U.S. Fish and Wildlife Service, Refuge Division, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , USFWS Regional Office 2, USFWS Regional Office 4, Oklahoma Department of Environmental Quality, Oklahoma Department of Mines, Oklahoma Conservation Commission, Oklahoma State Department of Agriculture	Work type not yet selected	Labor type not yet selected	Start estimated in year 5.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.5	Develop enhanced notification and consultation procedures.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Federal Energy Regulatory Commission, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, USFWS Regional Office 2, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	All costs are ES.
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.61	Develop necessary resources for captive propagation of the Ouachita rock pocketbook.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, American Association of Zoological Parks and Aquariums, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs = 80K/year. AGFC costs = 25K/year. ODWC costs = 25K/year. TPWD costs = 25K/year. AZAA costs = 25K/year. Duration is 3 years to develop, then indefinite.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.62	Perform cryogenic preservation for the Ouachita rock pocketbook.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, American Association of Zoological Parks and Aquariums, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, Contractor, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	ES costs: FY2 = 10K, FY3 = 2K. AGFC costs = 5K in FY2. ODWC costs = 5K in FY2. TPWD costs = 5K in FY2. Duration is 1 year to establish, then continuous.
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.71	Establish and permanently protect viable populations in all four stream systems historically inhabited by the Ouachita rock pocketbook.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, U.S. Federal Highway Administration, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4, Texas Commission on Environmental Quality, Arkansas Department of Ecology, Oklahoma Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	Timing and cost to be determined. Duration is 3 years to establish, then continual.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ouachita rock pocketbook (Arkansia wheeleri)	3	9.72	Refine delisting criterion, and provide any corresponding measures needed to support delisting of the Ouachita rock pocketbook.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Arkansas Game and Fish Commission , Oklahoma Department of Wildlife Conservation , USFWS Regional Office 2, USFWS Regional Office 4	Work type not yet selected	Labor type not yet selected	Timing and cost to be determined.